## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Application of : Attn: BOX REISSUE

U.S. Patent No.5,600,672 : Atty. Docket No. 2004\_0205

Issued February 4, 1997

Mitsuaki OSHIMA et al. :

Serial No. NEW

Filed February 9, 2004 : THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE

FEES FOR THIS PAPER TO DEPOSIT

COMMUNICATION SYSTEM : ACCOUNT NO. 23-0975

(Reissue Divisional of Serial No. 09/667,438, Filed September 21, 2000)

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Patentees request consideration of [X] the references listed on attached form PTO-1449 and/or [] the additional information identified below in paragraph 3. A legible copy of each reference listed on the form PTO-1449 and each U.S. patent application listed below is enclosed, except a copy is not provided for each reference previously cited by or submitted to the Patent Office in prior parent application Serial No. 09/667,438.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing date of the first Office Action on the merits,

and thus no certification and/or fee is required.

1b.	П	This	Inform	ation	Disc	losure	Statement	is	submitte
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after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) [] the certification of paragraph 2 below is provided, or
- (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.
- 1c. [] This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

## 2. It is hereby certified

- a. [] that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.
- 3. [] Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

- 4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
  - a. [] a full or partial English language translation submitted herewith,
  - b. [] a foreign patent office search report (in the English language) submitted herewith,
  - c. [] the concise explanation contained in the specification of the present application at page,
  - d. [] the concise explanation set forth in the attached English language abstract,
  - e. [X] the concise explanation set forth below or on a separate sheet attached to the reference:

JPA H05-218978 corresponds to U.S. Patent, No. 5,243,629 JPA 2-141049 corresponds to U.S. Patent No. 4,940,954. Japanese Patent No. 3-69295 corresponds to U.S. Patent No. 5,128,758 Japanese Patent No. 2-260726 corresponds to U.S. Patent No. 5,038,402 EP 0365431 corresponds to U.S. Patent No. 5,311,550

5. [X] Foreign patent office search reports citing one or more of the references is enclosed.

Respectfully submitted,

Mitsuaki OSHIMA et al.

//feffrey R. Filipek Registration No.41,471

Attorney for Patentees

JRF/fs Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 February 9, 2004

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			<del></del>	U.S. PATENT DOCUME			1				
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLA	ASS	SUBCLASS FILING DATE APPROPRIA				
	AA	5,311,550	5-10-94	Fouche et al							
	АВ	4,630,287	12-16-86	Armstrong							
	AC	4,271,527	6-2-81	Armstrong		·····		<b></b>	ļ		
	AD	5,050,188	9-17-91	Dirr					. !		
	AE	5,398,073	3-14-95	Wei							
	AF	5,452,015	9-19-95	Hulyalkar		_					
	AG	5,565,932	10-15-96	Citta et al.	Citta et al.						
	АН	5,481,412	1-2-96	Bannai et al	Bannai et al.						
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			F	FOREIGN PATENT DOCU	MENTS						
		DOCUMENT NUMBER	DATE	COUNTRY CLASS			SUBCLASS	TRANSI YES	SLATION S NO		
	AJ	0365431	4-25-90	EP					×		
	AK	0485105	5-13-92	EP				Х			
	AL	92/14343	8-20-92	wo				X			
	АМ	89/08366	9-8-89	wo				Х			
	AN	0031193	7-1-81	EP				х			
		OT	HER DOCUMENT(	S) (Including Author, Title,	Date, Pertinent Page:	s, Etc.)					
-	AO	Shinji Matsumot Telecommunica	o et al., "200 M tions Review, J	lb/s 16 QAM Digital F January 1982, vol. 24	Radio-Relay Syst	em Ope 5-73.	rating in 4 and	5 GHz Band	s", Japan		
	AP			oding of Television In er 2, 1990, no. 3, pag		ompatib	le System", Sig	nal Process	sing		
	AQ	Mitsuaki Oshima	a, "Constellation	n-Code Division Mult	iplex for Digital H	IDTV", II	EEE, 1992, pag	es 1086-10	192.		
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE		ME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
	AA	4,227,152	10-7-80	Godar	d et al.						
	АВ	4,525,846	6-25-85	Breme	r et al.						
	AC	4,751,478	6-14-88	Yos	hida						
	AD	4,891,806	1-2-90	Farias	s et al.				·		
	AE	4,903,125	2-20-90	Pai	ker						
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		DOCUMENT NUMBER	DATE	coul	NTRY	CLASS	SUBCLASS	TRANSI YES			
	AJ	0311188	4-12-89	E	Р			Х			
	AK	0329158	8-23-89	E	Р			Х			
	AL	64-5135	1-10-89	J	Р			Х			
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	AO	Tricia Hill et al., COM-31, June 1			. 64-State QAM", IE	EE Trans	actions on Comm	nunications,	vol.		
	AP	Hideki Ishio et a	I., "A Proposal	of a Carrier Dig	gital Transmission S	System Us	sing Multi-Level A	PSK", page	es 1-20.		
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE			CLASS	SUBCLASS		LING DATE IF PPROPRIATE		
	AA	5,105,442	4-14-92	W	/ei						
	АВ	4,048,572	9-13-77	Doglio	tti et al.						
	AC	5,282,019	1-25-94	Basile	e et al.				<del> </del>		
	AD	5,311,547	5-10-94	W	/ei						
	AE	5,267,021	11-30-93	Ramchan	dran et al.				<del></del>		
	AF	5,038,219	8-6-91	Yamashita et al.							
	AG	5,087,975	2-11-92	Citta et al.							
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	AI	5,243,629	9-7-93	Wei				·			
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		DOCUMENT NUMBER	DATE	cou	NTRY C	LASS	SUBCLASS	TRANSI YES			
	AJ	53-137657	12-1-78	J	Р			X			
	AK	0282298	9-14-88	Eur	оре			Х			
	AL	0392538	10-17-90	Eur	оре			х			
	AM	0490552	6-17-92	Eur	оре	<del> </del>		Х			
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	AO	Khaled Fazel et 1085	al., Combined	multilevel codi	ng and multiresolutio	n modula	tion, February 8	, 1993, Pag	es 1081-		
	АР				oded OFDM-based D becom '91", Decemb						
	AQ	K. M. Uz et al., 0 Pages 283-292	Combined multi	iresolution sou	rce coding and modu	lation for	digital broadcas	t of HDTV*,	1992,		
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				U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CIV	ASS	SUBCLASS	FILING I APPRO	DATE IF PRIATE	
	AA	5,142,353	8-25-92	Kageyama et al.						
	АВ	5,197,061	3-23-93	Halbert-Lassalle et al.	assalle et al.					
	AC	5,291,289	3-1-94	Hulyalkar et al.						
	AD	5,166,924	11-24-92	Moose	Moose					
	AE	4,940,954	7-10-90	Aubert et al.	ı.					
	AF	5,128,758	7-7-92	Azadegan et al.						
	AG	5,038,402	8-6-91	Robbins						
	АН	5,638,112	6-10-97	Bestler et al.						
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	Al	0448492A1	9-25-91	Europe					Х	
	AJ	0485108A2	5-13-92	Europe				Х		
	AK	0525641A2	2-3-93	Europe				Х		
	AL	0540231A2	5-5-93	Europe .				х		
	АМ	0531046A2	3-10-93	Europe				х		
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	AN	K. M. Uz et al., N	Multiresolution	Source and Channel Coding	for Digita	al Broad	cast of HDTV, 1	1992, Pages	<b>3 61-69</b> .	
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE			CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	АА	5,063,445	11-5-91	Nishiza	wa et al.					
	AB	5,819,000	10-6-98	Ost	nima					
	AC	5,999,569	12-7-99	Ost	nima					
	AD	5,892,879	4-6-99	Oshima						
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	AE	7-99522	4-11-95	Ja	Japan			abstract		
	AF	7-79415	3-20-95	Ja	Japan			abstract	, s, see	
	AG	5-75568	3-26-93	Ja	Japan		abstract			
	АН	86-07223	12-4-86	W	<i>1</i> 0			Х		
	Al	2 187 611	9-9-87	Great	Britain .			х		
	AJ	85/04541	10-10-85	W	<i>i</i> o		,	х		
	AK	04-196822	7-16-92	Ja <sub>l</sub>	pan			abstract		
	AL	2-166979	6-27-90	Ja <sub>l</sub>	pan			abstract		
	АМ	64-74836	3-20-89	Jaı	pan		i	abstract		
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	AA	4,636,876	1-13-87	Sch	wartz						
	АВ	4,855,692	8-8-89	Kennar	rd et al.						
	AC	4,873,701	10-10-89	Tre	etter						
	AD	4,958,360	9-18-90	S	ari	···					
	AE	5,115,453	5-19-92	Calderba	ank et al.						
	AF	5,168,509	12-1-92	Nakamı	ura et al.						
	AG	6,049,651	4-11-00	Osh	Oshima						
	АН	6,256,357	7-3-01	Oshima							
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			F	FOREIGN PATENT	DOCUMENTS						
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	AJ	0122805	10-24-84	Е	:P				х		
	AK	63-180280	7-25-88	J	Р				abstract		
	AL	64-68144	3-14-89	Jar	pan				abstract		
	АМ	5-218978	8-27-93	Jar	oan					х	
	AN	3-69295	3-25-91	Jar	oan					Х	
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	AO	Kazuhiko Nitado Conference on C							od, 1976 Inte	ernational	
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	AQ	"Optimum Weigh COM-26, No. 6,			", Sundberg, IEE	E Tran	sactions	s on Communic	ations, Volu	ıme	
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	AA	5,170,413	12-8-92	Hess	Hess et al.						
	АВ										
			F	FOREIGN PATENT	DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY		CLA	ss	SUBCLASS	TRANSLATION YES NO		
	AC	57-39629	3-4-82	Jar	oan				abstract		
	AD	58-161547	9-26-83	Jar	oan				abstract		
	AE	63-180222	7-25-88	Jar	oan				abstract		
	AF	92/22162	12-10-92	W	wo				х		
	AG	2-94814	4-5-90	Japan					abstract		
	АН	61-70861	4-11-86	Jap	oan				abstract	:	
	Al	2-218279	8-30-90	Jap	oan				abstract		
	AJ	2,095,435	5-10-92	Can	ada				Х		
	AK	91/20137	12-26-91	W	0			·	х		
	AL	2-141049	5-30-90	Jap	oan					Х	
	AM	2-195732	8-2-90	Jap	oan				abstract		
	AN	5-167633	7-2-93	Jap	oan				abstract		
	АО	2-260726	10-23-90	Jap	oan					Х	
	АР	58-161427	9-26-83	Jap	oan				abstract		
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